

# Dell™ S2440L Monitor

## [User's Guide](#)

### [Setting the display resolution](#)

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**Model S2440Lb**

**July 2012 Rev. A00**

# Dell™ S2440L Monitor User's Guide

[About Your Monitor](#)

[Setting Up the Monitor](#)

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## Notes, Cautions, and Warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your computer.

 **CAUTION:** A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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**Model S2440Lb**

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# About Your Monitor

## Dell™ S2440L Monitor User's Guide

- [Package Contents](#)
- [Product Features](#)
- [Identifying Parts and Controls](#)
- [Monitor Specifications](#)
- [Plug and Play Capability](#)
- [LCD Monitor Quality and Pixel Policy](#)
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## Package Contents

Your monitor ships with the components shown below. Ensure that you have received all the components and [contact Dell](#) if something is missing.

 **NOTE:** Some items may be optional and may not ship with your monitor. Some features or media may not be available in certain countries.

	<ul style="list-style-type: none"><li>• Monitor</li></ul>
	<ul style="list-style-type: none"><li>• Stand Riser</li></ul>



- Stand Base



- Power Cable



- Power Adapter



- VGA Cable



- Cable Tie



- Drivers and Documentation media
- Quick Setup Guide
- Product and Safety Information Guide

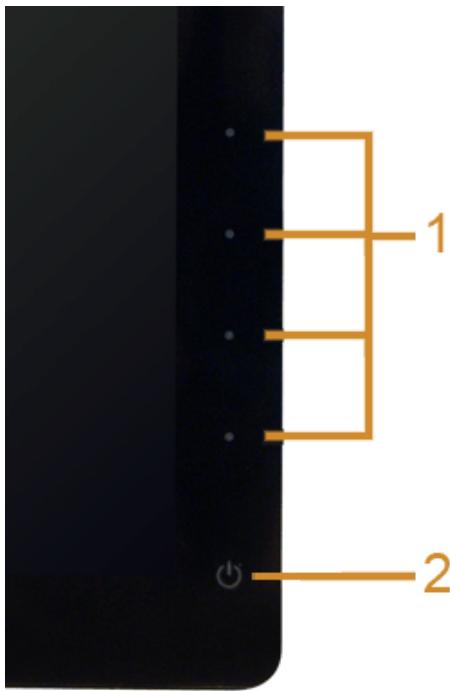
## Product Features

The **Dell Professional S2440L** flat panel display has an active matrix, Thin-Film Transistor (TFT), Liquid Crystal Display (LCD) and LED backlight. The monitor features include:

- **S2440L:** 60.97 cm (24-inch) viewable area display (measured diagonally). 1920 x 1080 resolution, plus full-screen support for lower resolutions.
- Wide viewing angle to allow viewing from a sitting or standing position, or while moving from side-to-side.
- Tilt capability.
- Plug and play capability if supported by your system.
- On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.
- Software and documentation media includes an Information File (INF), Image Color Matching File (ICM), Dell Display Manager software application and product documentation.
- Energy Saver feature for Energy Star compliance.
- Security lock slot.
- Capability to switch from wide aspect to standard aspect ratio while maintaining the image quality.
- EPEAT silver Rating.
- Dell Display Manager Software included (comes in the CD shipped with the monitor).
- Arsenic-Free glass and Mercury-Free for the panel only.
- High Dynamic Contrast Ratio (8,000,000:1).
- 0.5 W standby power when in the sleep mode.
- Energy Gauge shows the energy level being consumed by the monitor in real time.

## Identifying Parts and Controls

### Front View



Front panel controls

Label	Description
1	Function buttons (For more information, see <a href="#">Operating the Monitor</a> )
2	Power On/Off button (with LED indicator)

## Back View



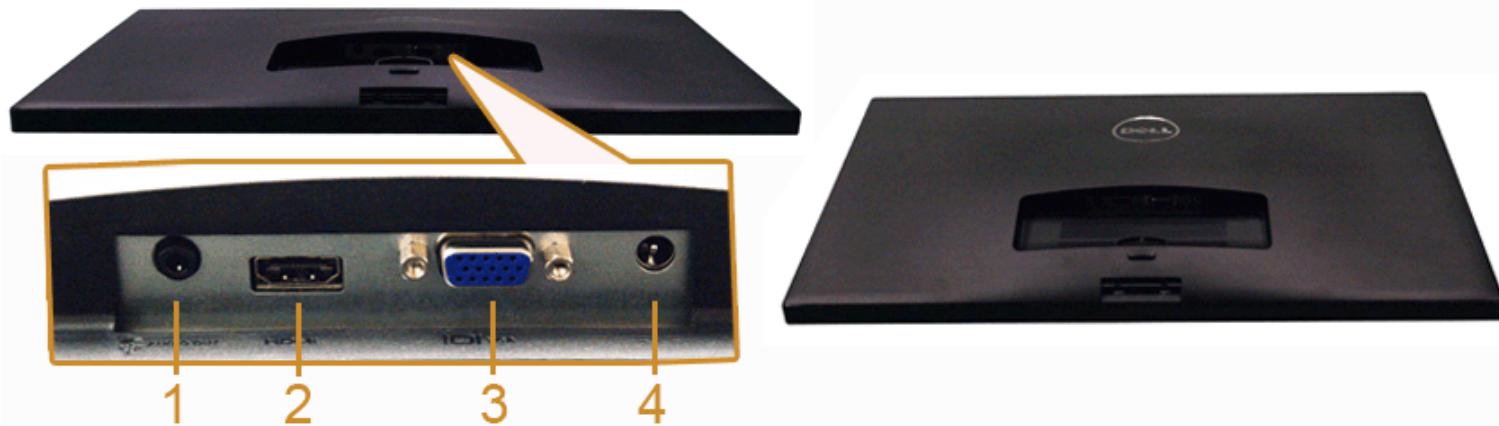
**Back View with monitor stand**

Label	Description	Use
<b>1</b>	Security lock slot	Secure monitor with security cable lock.
<b>2</b>	Regulatory label	List the regulatory approvals.
<b>3</b>	Barcode serial number label	Refer to this label if you need to contact Dell for technical support.
<b>4</b>	Stand release button	Release stand from monitor.
<b>5</b>	Cable management clip	Use to organize cables by routing them through the clip.

## Side View



## Bottom View



Bottom view without monitor stand

Label	Description	Use
1	Audio Line-out	Connect your speakers.*
2	HDMI connector	Connect your computer HDMI cable.
3	VGA connector	Connect your computer VGA cable.
4	DC power cord connector	Connect the power cable.

\*Headphone usage is not supported for the audio line out connector.

## Monitor Specifications

### Flat Panel Specifications

Model	S2440L
Screen type	Active matrix - TFT LCD
Panel type	VA
Screen dimensions	60.9 cm (24-inch diagonal viewable image size)
Preset display area:	<ul style="list-style-type: none"><li>• Horizontal 531.36 mm (20.92 inches)</li><li>• Vertical 298.89 mm (11.77 inches)</li></ul>
Pixel pitch	0.277 mm
Viewing angle	178° (vertical) typical 178° (horizontal) typical
Luminance output	Panel 280 cd/m <sup>2</sup> (Typ.) Monitor 250 cd/m <sup>2</sup> (Typ.)
Contrast ratio	5000 to 1 (typical) 8M to 1 (typical Dynamic Contrast On)
Faceplate coating	Glare with hard-coating 3H
Backlight	LED edgelight system
Response time	12 ms (typical) 6 ms (typical) with Overdrive
Color depth	16.7 million colors
Color gamut	CIE1976 (86%)*

\*S2440L color gamut (typical) is based on CIE1976 (86%) and CIE1931 (72%) test standards.

### Resolution Specifications

Model	S2440L
Horizontal scan range	30 kHz to 83 kHz (automatic)
Vertical scan range	56 Hz to 76 Hz (automatic)
Maximum preset resolution	1920 x 1080 at 60 Hz

## Supported Video Modes

Model	S2440L
Video display capabilities (HDMI playback)	480p, 480i, 576p, 576i, 720p, 1080p, 1080i

## Preset Display Modes

S2440L

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/Vertical)
VESA, 720 x 400	31.5	70.1	28.3	-/+
VESA, 640 x 480	31.5	60.0	25.2	-/-
VESA, 640 x 480	37.5	75.0	31.5	-/-
VESA, 800 x 600	37.9	60.3	40.0	+/+
VESA, 800 x 600	46.9	75.0	49.5	+/+
VESA, 1024 x 768	48.4	60.0	65.0	-/-
VESA, 1024 x 768	60.0	75.0	78.8	+/+
VESA, 1152 x 864	67.5	75.0	108.0	+/+
VESA, 1280 x 1024	64.0	60.0	108.0	+/+
VESA, 1280 x 1024	80.0	75.0	135.0	+/+
VESA, 1920 x 1080	67.5	60.0	148.5	+/+

## Electrical Specifications

Model	S2440L	
Video input signals	<ul style="list-style-type: none"><li>Analog RGB, 0.7 Volts +/- 5%, positive polarity at 75 ohm input impedance</li><li>HDMI, 600mV for each differential line, 100 ohm input impedance per differential pair</li></ul>	
Synchronization input signals	Separate horizontal and vertical synchronizations, polarity-free TTL level, SOG (Composite SYNC on green)	
AC/DC adapter*	Input voltage/frequency/current	Delta adapter ADP-40DD B: 100 VAC to 240 VAC / 50 Hz to 60 Hz ± 3 Hz / 1.5 A (Max.), Lite-On adapter PA-1041-71: 100 VAC to 240 VAC / 50 Hz or 60 Hz ± 3 Hz / 1.2 A

	(Max.)
Output voltage/current	Output: 12 VDC / 3.33 A
Inrush current	<ul style="list-style-type: none"> <li>• 120 V : 30 A (Max)</li> <li>• 240 V : 60 A (Max)</li> </ul>

\*Qualified Compatible AC/DC adapters:

 **CAUTION:** To avoid damage to the monitor, use only the adapter designed for this particular Dell monitor.

Manufacturer	Model	Polarity
Delta	ADP-40DD BA	
Lite-On	PA-1041-71TP-LF	

## Physical Characteristics

Model	S2440L
Connector type	15-pin D-subminiature, blue connector; HDMI
Signal cable type	<ul style="list-style-type: none"> <li>• Analog: attachable, D-Sub, 15 pins, shipped detached from the monitor</li> <li>• Digital: HDMI</li> </ul>
<b>Dimensions (with stand)</b>	
Height	417.9 mm (16.45 inches)
Width	567.4 mm (22.34 inches)
Depth	190.8 mm (7.51 inches)
<b>Dimensions (without stand)</b>	
Height	334.9 mm (13.18 inches)
Width	567.4 mm (22.34 inches)
Depth	43.5 mm (1.71 inches)
<b>Stand dimensions</b>	
Height	137.1 mm (5.4 inches)
Width	190.8 mm (7.51 inches)
Depth	190.8 mm (7.51 inches)
<b>Weight</b>	

Weight with packaging	6.09 kg (13.43 lb)
Weight with stand assembly and cables	5.03 kg (11.09 lb)
Weight without stand assembly	3.66 kg (8.07 lb)
Weight of stand assembly	0.87 kg (1.92 lb)
Front frame gloss	90~100 gloss unit

## Environmental Characteristics

Model	S2440L
<b>Temperature</b>	
Operating	0 °C to 40 °C
Non-operating	<ul style="list-style-type: none"> <li>Storage: -20 °C to 60 °C (-4 °F to 140 °F)</li> <li>Shipping: -20 °C to 60 °C (-4 °F to 140 °F)</li> </ul>
<b>Humidity</b>	
Operating	10% to 80% (non-condensing)
Non-operating	<ul style="list-style-type: none"> <li>Storage: 5% to 90% (non-condensing)</li> <li>Shipping: 5% to 90% (non-condensing)</li> </ul>
<b>Altitude</b>	
Operating	5,000 m (16,404 ft) max
Non-operating	12,192 m (40,000 ft) max
<b>Thermal dissipation</b>	<ul style="list-style-type: none"> <li>85.30 BTU/hour (maximum)</li> <li>61.42 BTU/hour (typical)</li> </ul>

## Power Management Modes

If you have VESA's DPM™ compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. This is referred to as *Power Save Mode*\*. If the computer detects input from the keyboard, mouse, or other input devices, the monitor automatically resumes functioning. The following table shows the power consumption and signaling of this automatic power saving feature:

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	white	25 W (maximum) ** 18 W (typical)
Active-off mode	Inactive	Inactive	Blanked	Amber	Less than 0.5 W
Switch off	-	-	-	Off	Less than 0.5 W

The OSD functions only in the normal operation mode. When any button is pressed in the Active-off mode, one of the following messages will be displayed:

## Dell S2440L

There is no signal coming from your computer. Press any key on the keyboard or move the mouse to wake it up. If there is no display, press the monitor button now to select the correct input source on the On-Screen-Display menu.



Activate the computer and the monitor to gain access to the OSD.



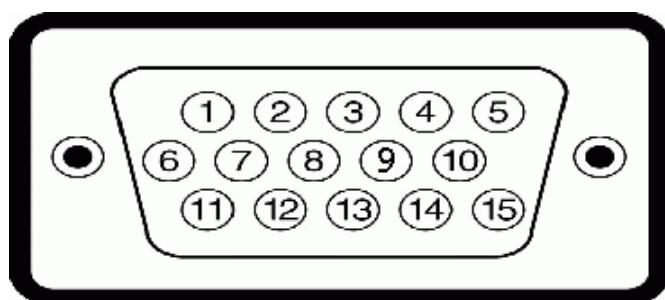
**NOTE:** This monitor is **ENERGY STAR®**-compliant.

\* Zero power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor.

\*\* Maximum power consumption with max luminance.

## Pin Assignments

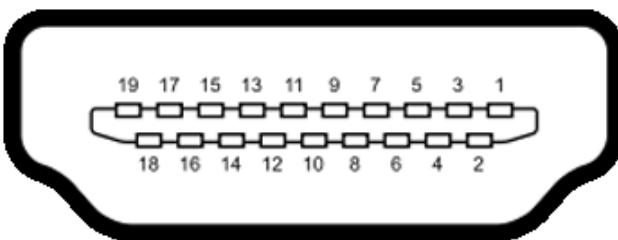
### VGA Connector



Pin Number	15-pin Side of the Connected Signal Cable
1	Video-Red
2	Video-Green
3	Video-Blue
4	GND
5	Self-test

6	GND-R
7	GND-G
8	GND-B
9	Computer 5 V/3.3 V
10	GND-sync
11	GND
12	DDC data
13	H-sync
14	V-sync
15	DDC clock

## HDMI Connector



Pin Number	19-pin Side of the Connected Signal Cable
1	TMDS DATA 2+
2	TMDS DATA 2 SHIELD
3	TMDS DATA 2-
4	TMDS DATA 1+
5	TMDS DATA 1 SHIELD
6	TMDS DATA 1-
7	TMDS DATA 0+
8	TMDS DATA 0 SHIELD
9	TMDS DATA 0-
10	TMDS CLOCK+
11	TMDS CLOCK SHIELD
12	TMDS CLOCK-

13	CEC
14	Reserved (N.C. on device)
15	DDC CLOCK (SCL)
16	DDC DATA (SDA)
17	DDC/CEC Ground
18	+5V POWER
19	HOT PLUG DETECT

## Plug and Play Capability

You can install the monitor in any Plug and Play-compatible system. The monitor automatically provides the computer system with its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols so the system can configure itself and optimize the monitor settings. Most monitor installations are automatic; you can select different settings if desired. For more information about changing the monitor settings, see [Operating the Monitor](#).

## LCD Monitor Quality and Pixel Policy

During the LCD Monitor manufacturing process, it is not uncommon for one or more pixels to become fixed in an unchanging state which are hard to see and do not affect the display quality or usability. For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: [support.dell.com](#).

## Maintenance Guidelines

### Cleaning Your Monitor

 **CAUTION:** Read and follow the [safety instructions](#) before cleaning the monitor.

 **WARNING:** Before cleaning the monitor, unplug the monitor power cable from the electrical outlet.

For best practices, follow the instructions in the list below while unpacking, cleaning, or handling your monitor:

- To clean your anti-static screen, lightly dampen a soft, clean cloth with water. If possible, use a special screen-cleaning tissue or solution suitable for the anti-static coating. Do not use benzene, thinner, ammonia, abrasive cleaners, or compressed air.
- Use a lightly-dampened, warm cloth to clean the monitor. Avoid using detergent of any kind as some detergents leave a milky film on the monitor.
- If you notice white powder when you unpack your monitor, wipe it off with a cloth.
- Handle your monitor with care as a darker-colored monitor may get scratched and show white scuff marks more than a lighter-colored monitor.
- To help maintain the best image quality on your monitor, use a dynamically changing screen saver and turn off your monitor when not in use.

# Setting Up the Monitor

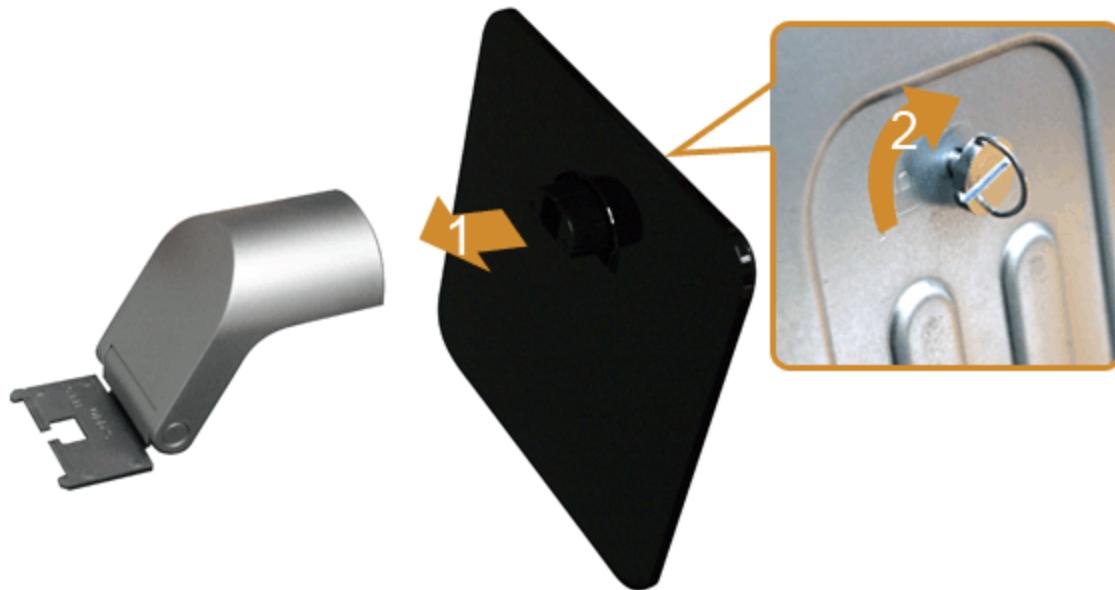
## Dell™ S2440L Monitor User's Guide

- [Attaching the Stand](#)
- [Connecting the Monitor](#)
- [Organizing Your Cables](#)
- [Removing the Monitor Stand](#)

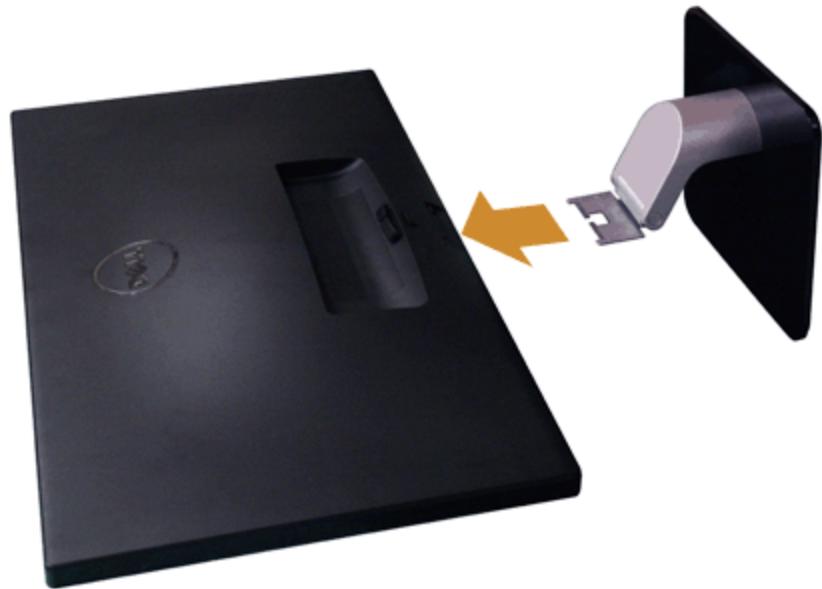
## Attaching the Stand

 **NOTE:** The stand riser and stand base are detached when the monitor is shipped from the factory.

1. Assemble the stand riser to stand base.
  - a. Attach the stand riser to the stand base.
  - b. Tighten the thumbscrew below the stand base.



2. Attach the stand assembly to the monitor.
  - a. Place the monitor on a soft cloth or cushion near the edge of desk.
  - b. Align the stand assembly bracket to the monitor groove.
  - c. Insert the bracket towards monitor until it locked in place.



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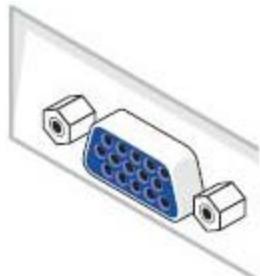
## Connecting Your Monitor

 **WARNING:** Before you begin any of the procedures in this section, follow the [Safety Instructions](#).

To connect your monitor to the computer:

1. Turn off your computer and disconnect the power cable.

Connect the blue (VGA) cable from your monitor to the computer.



 **NOTE:** If your computer supports an HDMI connector, connect the HDMI cable (can be purchased separately) to the monitor and the HDMI connector to your computer.



 **NOTE:** Do not connect the VGA/HDMI cable to the computer at the same time.

2. Connect either the HDMI cable, or the VGA display connector cable to the corresponding video port on the back of your computer. Do not connect both cables on the same computer. Use both cables only when they are connected to two different computers with appropriate video systems.

## Connecting the blue VGA cable



## Connecting the HDMI cable



 **CAUTION:** The graphics are used for the purpose of illustration only. Appearance of the computer may vary.

## Organizing Your Cables

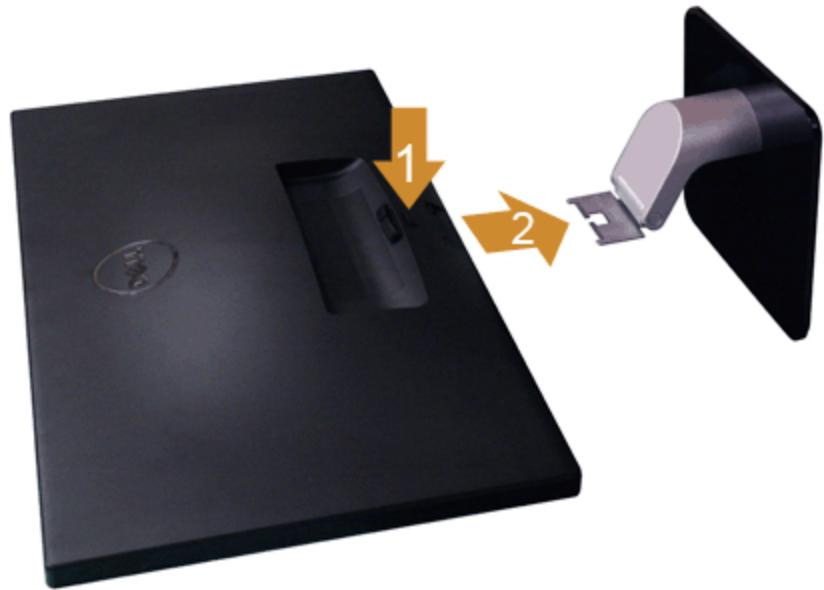


After attaching all necessary cables to your monitor and computer, (See [Connecting Your Monitor](#) for cable attachment,) organize all cables as shown above.

## Removing the Monitor Stand

 **NOTE:** To prevent scratches on the LCD screen while removing the stand, ensure that the monitor is placed on a soft, clean surface.

 **NOTE:** This is applicable for a monitor with a stand. When any other stand is bought, please refer to the respective stand setup guide for the set-up instructions.



To remove the stand:

1. Place the monitor on a flat surface.
2. Press and hold the stand release button.
3. Remove the stand.

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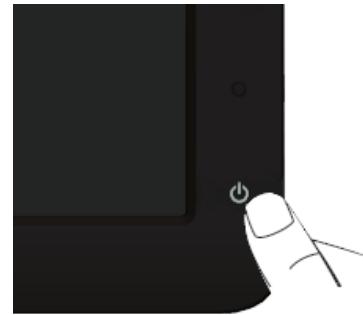
## Operating the Monitor

Dell™ S2440L Monitor User's Guide

- [Power On the Monitor](#)
  - [Using the Front Panel Controls](#)
  - [Using the On-Screen Display \(OSD\) Menu](#)
  - [Setting the Maximum Resolution](#)
  - [Using the Tilt](#)
- 

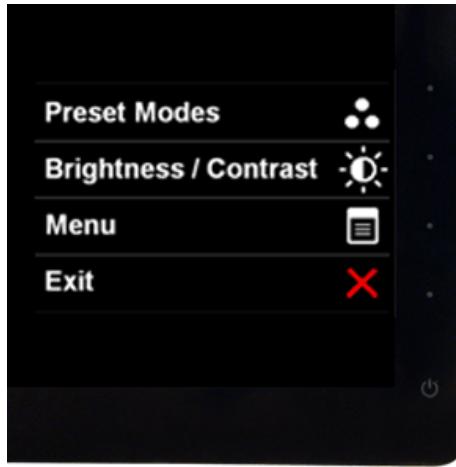
### Power On the Monitor

Press the  button to turn on the monitor



### Using the Front Panel Controls

Use the control buttons on the front of the monitor to adjust the characteristics of the image being displayed. As you use these buttons to adjust the controls, an OSD shows the numeric values of the characteristics as they change.

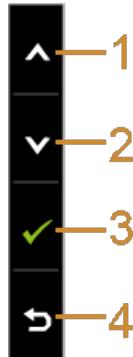


The following table describes the front panel buttons:

Front Panel Button	Description
1  Shortcut key/ Preset Modes	Use this button to choose from a list of preset color modes.
2  Shortcut key/ Brightness/Contrast	Use this button to directly access the "Brightness/Contrast" menu.
3  Menu	Use the MENU button to launch the On-Screen Display (OSD) and select the OSD Menu. See <a href="#">Accessing the Menu System</a> .
4  Exit	Use this button to go back to the main menu or exit the OSD main menu.
5  Power (with power light indicator)	Use the Power button to turn the monitor On and Off. The white light indicates the monitor is On and fully functional. An amber light indicates the power save mode.

## Front Panel Button

Use the [buttons](#) on the front of the monitor to adjust the image settings.



Front Panel Button	Description
1	Up Use the Up button to adjust (increase ranges) items in the OSD menu.
2	Down Use the Down button to adjust (decrease ranges) items in the OSD menu.
3	OK Use the OK button to confirm your selection.
4	Back Use the Back button to go back to the previous menu.

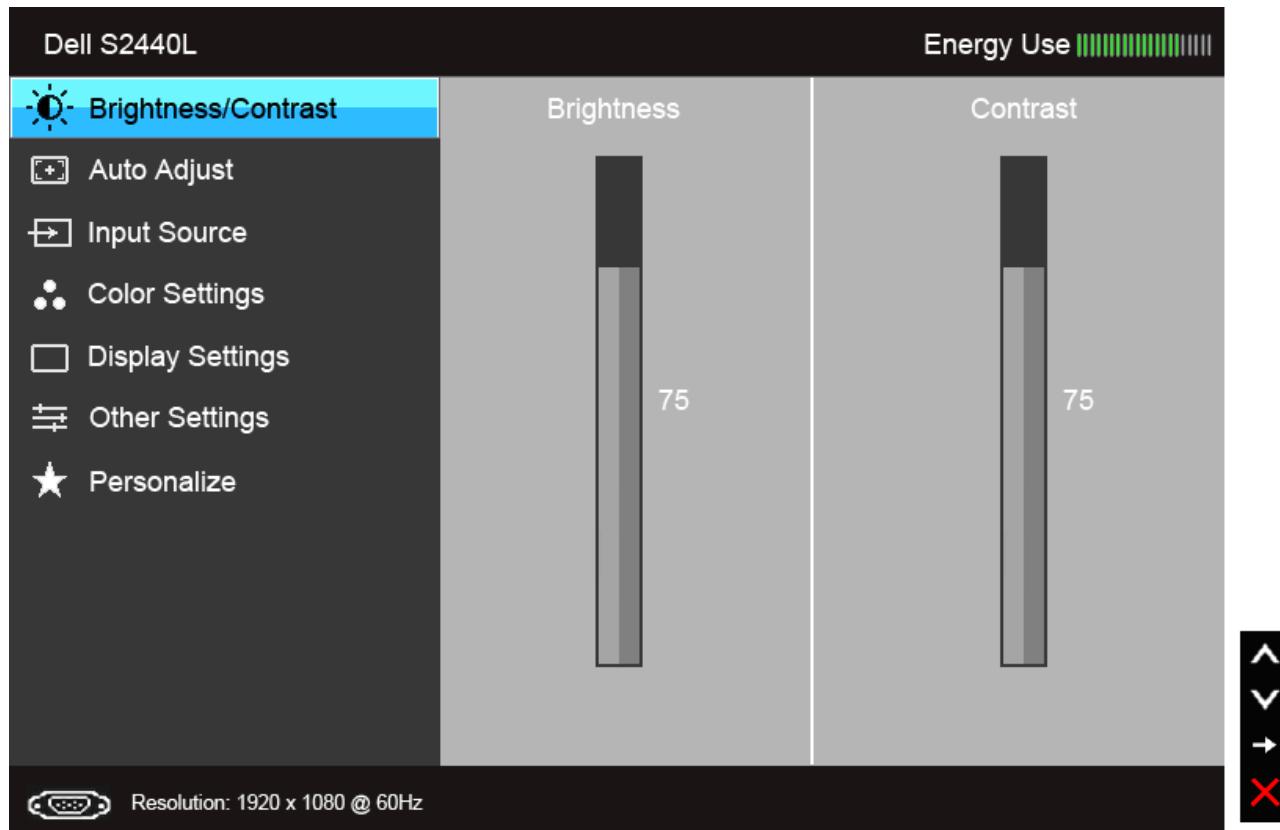
## Using the On-Screen Display (OSD) Menu

### Accessing the Menu System

**NOTE:** If you change the settings and then either proceed to another menu or exit the OSD menu, the monitor automatically saves those changes. The changes are also saved if you change the settings and then wait for the OSD menu to disappear.

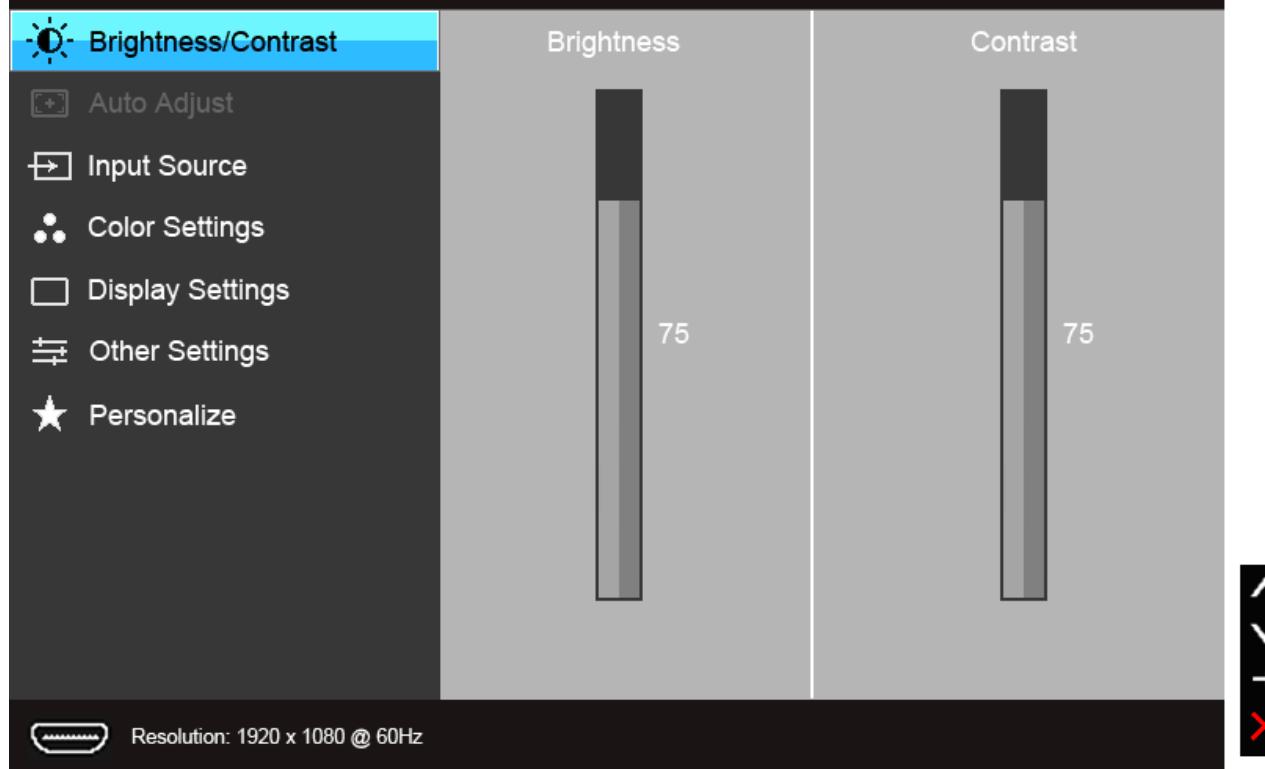
1. Press the button to launch the OSD menu and display the main menu.

Main Menu for analog (VGA) input



or

Main Menu for digital (HDMI) input



 **NOTE:** Auto Adjust is only available when you use the analog (VGA) connector.

2. Press the  and  buttons to move between the setting options. As you move from one icon to another, the option name is highlighted. See the following table for a complete list of all the options available for the monitor.

3. Press the  button once to activate the highlighted option.

4. Press  and  button to select the desired parameter.

5. Press  to enter the slide bar and then use the  and  buttons, according to the indicators on the menu, to make your changes.

6. Select the  button to return to the main menu.

Icon	Menu and Submenus	Description
	<b>Brightness/Contrast</b>	Use this menu to activate Brightness/Contrast adjustment.

## Dell S2440L

Energy Use  Brightness/Contrast

-  Auto Adjust
-  Input Source
-  Color Settings
-  Display Settings
-  Other Settings
-  Personalize

## Brightness

75

## Contrast

75



Resolution: 1920 x 1080 @ 60Hz

**Brightness**

Brightness adjusts the luminance of the backlight.

Press the **▲** button to increase the brightness and press the **▼** button to decrease the brightness (min 0 / max 100).**NOTE:** Manual adjustment of Brightness is disabled when Energy Smart or Dynamic Contrast is switched On.**Contrast**

Adjust the Brightness first, and then adjust the Contrast only if further adjustment is necessary.

Press the **▲** button to increase the contrast and press the **▼** button to decrease the contrast (min 0 / max 100).  
The Contrast function adjusts the degree of difference between darkness and lightness on the monitor screen.**Auto Adjust**Even though your computer recognizes your monitor on startup, the **Auto Adjustment** function optimizes the display settings for use with your particular setup.

Auto Adjustment allows the monitor to self-adjust to the incoming video signal. After using Auto Adjustment, you can further tune your monitor by using the Pixel Clock (Coarse) and Phase (Fine) controls under Display Settings.

Auto Adjustment in Progress...

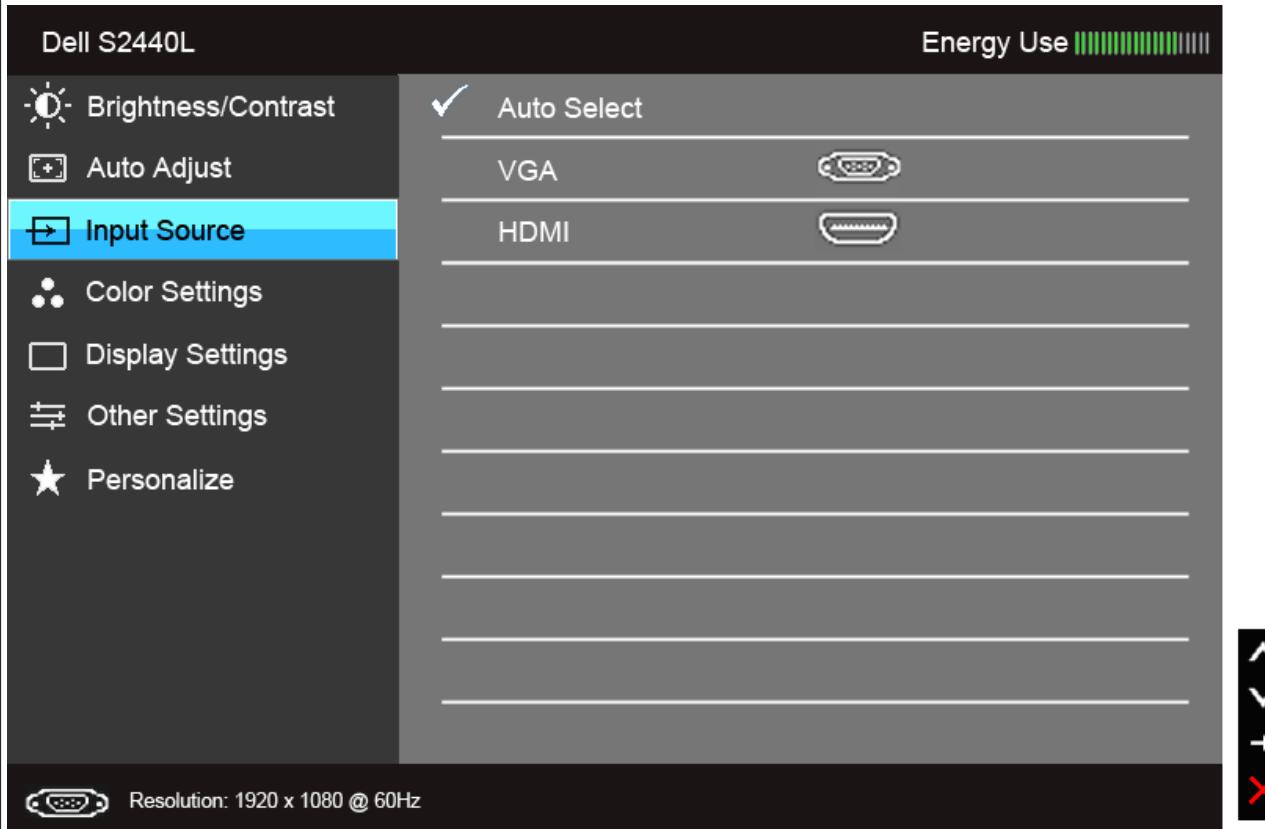
**NOTE:** In most cases, Auto Adjust produces the best image for your configuration.

**NOTE:** **Auto Adjust** option is only available when you are using the analog (VGA) connector.



#### Input Source

Use the **Input Source** menu to select between the different video signals that may be connected to your monitor.



#### Auto Select

Press to select **Auto Select**, the monitor scans for available input sources.



#### VGA

Select the **VGA** input when you are using the analog (VGA) connector. Press to select the VGA input source.



#### HDMI

Select **HDMI** input when you are using the HDMI connector. Press to select the HDMI input source.

#### Color Settings

Use **Color Settings** to adjust the color setting mode.

## Dell S2440L

Energy Use  Brightness/Contrast Auto Adjust Input Source Color Settings Display Settings Other Settings Personalize

## Input Color Format



RGB

Preset Modes

Standard

Image Enhance

Off

Reset Color Settings



Resolution: 1920 x 1080 @ 60Hz

**Input Color Format**

Allows you to set the video input mode to:

**RGB:** Select this option if your monitor is connected to a computer or DVD player using the VGA cable.**YPbPr:** Select this option if your monitor is connected to a DVD player by YPbPr to VGA cable; or if the DVD color output setting is not RGB.

## Dell S2440L

Energy Use  Brightness/Contrast Auto Adjust Input Source Color Settings Display Settings Other Settings Personalize

Input Color Format

 RGB

Preset Modes

YPbPr

Image Enhance  Off

Reset Color Settings



Resolution: 1920 x 1080 @ 60Hz

## Preset Modes

When you select **Preset Modes**, you can choose **Standard**, **Multimedia**, **Movie**, **Game**, **Text**, **Warm**, **Cool** or **Custom Color** from the list.

- **Standard:** Loads the monitor's default color settings. This is the default preset mode.
- **Multimedia:** Loads color settings ideal for multimedia applications.
- **Movie:** Loads color settings ideal for movies.
- **Game:** Loads color settings ideal for most gaming applications.
- **Text:** Loads brightness and sharpness settings ideal for viewing texts.
- **Warm:** Increase the color temperature. The screen appears warmer with a red/yellow tint.
- **Cool:** Decreases the color temperature. The screen appears cooler with a blue tint.
- **Custom Color:** Allows you to manually adjust the color settings. Press the  and  buttons to adjust the three colors (R, G, B) values and create your own preset color mode.

## Dell S2440L

Energy Use  Brightness/Contrast Auto Adjust Input Source Color Settings Display Settings Other Settings Personalize

## Input Color Format

## Preset Modes

 Standard

Multimedia

Movie

Game

Text

Warm

Cool

Custom Color



Resolution: 1920 x 1080 @ 60Hz

**Hue**

This feature can shift the color of the video image to green or purple. This is used to adjust the desired flesh tone color. Use  or  to adjust the hue from '0' to '100'.

Press  to increase the green shade of the video image.

Press  to increase the purple shade of the video image.

**NOTE:** Hue adjustment is available only when you select Movie or Game preset mode.

**Saturation**

This feature can adjust the color saturation of the video image. Use  or  to adjust the saturation from '0' to '100'.

Press  to increase the monochrome appearance of the video image.

Press  to increase the colorful appearance of the video image.

**NOTE:** Saturation adjustment is available only when you select Movie or Game preset mode.

**Demo Mode**

Splits the screen into two for viewing the images under the normal and enhanced Movie preset mode side by side.

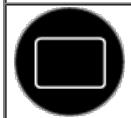
You can also press  and  simultaneously to enable/disable this mode.

**NOTE:** Demo mode is available only when you select Movie preset mode.

**Image Enhance**

Makes upsized images higher quality by removing image fading and roughness of edge.

**NOTE:** Image Enhance is available only when you select Standard, Multimedia, Movie, or Game preset mode.



	<p><b>Reset Color Settings</b></p> <p>Reset your monitor color settings to the factory settings.</p>
<b>Display Settings</b>	<p>Use the Display Settings to adjust image.</p> <p>Dell S2440L</p> <p>Energy Use</p> <p>Brightness/Contrast</p> <p>Auto Adjust</p> <p>Input Source</p> <p>Color Settings</p> <p>Display Settings</p> <p>Other Settings</p> <p>Personalize</p> <p>Aspect Ratio</p> <p>Horizontal Position</p> <p>Vertical Position</p> <p>Sharpness</p> <p>Pixel Clock</p> <p>Phase</p> <p>Dynamic Contrast</p> <p>Reset Display Settings</p> <p>Resolution: 1920 x 1080 @ 60Hz</p>
<b>Aspect Ratio</b>	Adjusts the image ratio to Wide 16:9, 4:3, or 5:4.
<b>Horizontal Position</b>	Use  or  to adjust the image left or right. Minimum is '0' (-). Maximum is '100' (+).
<b>Vertical Position</b>	Use  or  to adjust the image up or down. Minimum is '0' (-). Maximum is '100' (+). <b>NOTE:</b> Horizontal Position and Vertical Position adjustments are only available for "VGA" input.
<b>Sharpness</b>	This feature can make the image look sharper or softer. Use  or  to adjust the sharpness from '0' to '100'.
<b>Pixel Clock</b>	The Phase and Pixel Clock adjustments allow you to adjust your monitor to your preference. Use  or  to adjust for best image quality.
<b>Phase</b>	If satisfactory results are not obtained using the Phase adjustment, use the Pixel Clock (coarse) adjustment and then use Phase (fine), again.

**NOTE:** Pixel Clock and Phase adjustments are only available for "VGA" input.

**Dynamic Contrast** Allows you to increase the level of contrast to provide sharper and more detailed image quality.



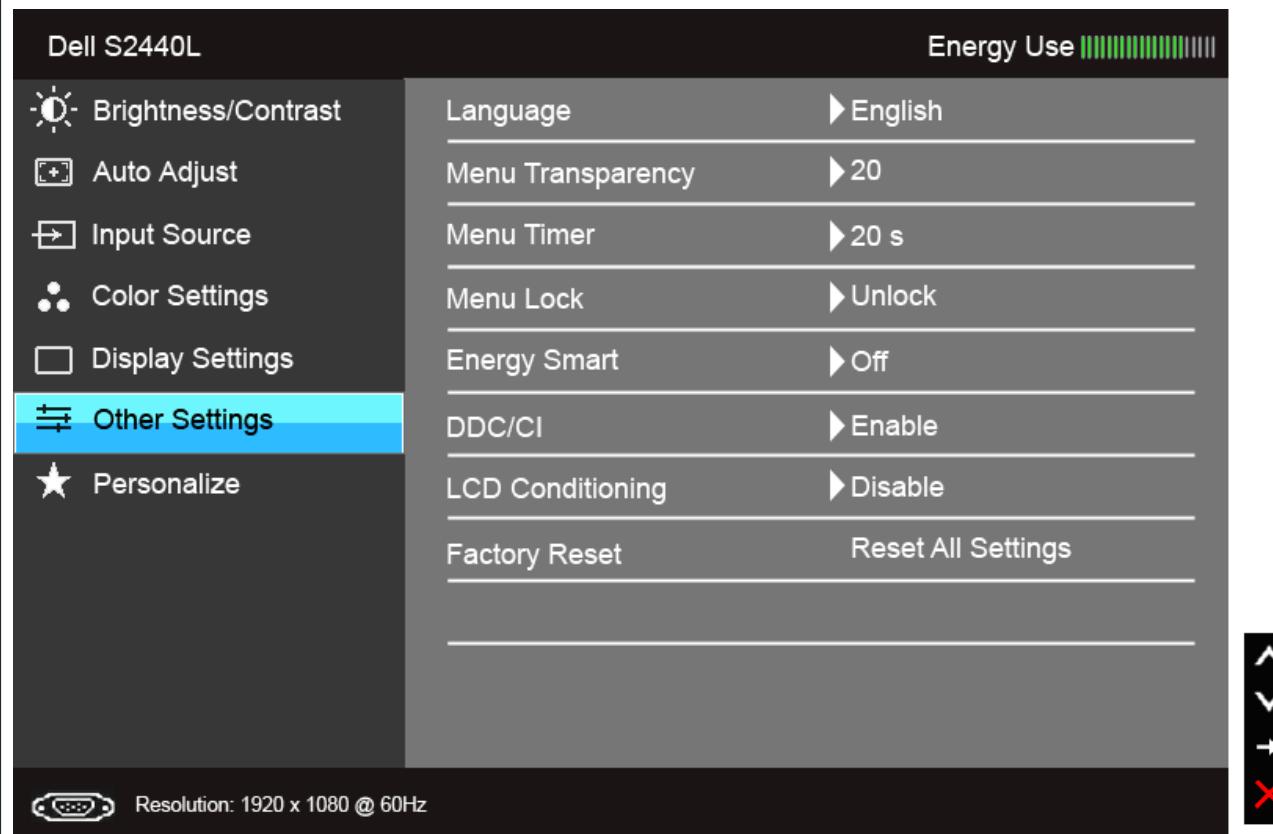
Press the button to select the Dynamic Contrast "On" or "Off".

**NOTE:** Dynamic Contrast provides higher contrast if you select Game or Movie preset mode.

**Reset Display Settings** Select this option to restore default display settings.

**Other Settings**

Select this option to adjust the settings of the OSD, such as, the languages of the OSD, the amount of time the menu remains on screen, and so on.



**Language** Language options set the OSD display to one of the eight languages (English, Spanish, French, German, Simplified Chinese or Japanese).

**Menu Transparency** Select this option to change the menu transparency by pressing the and buttons (Minimum: 0 ~ Maximum: 100).

**Menu Timer** OSD Hold Time: sets the length of time the OSD will remain active after the last time you pressed a button.



Use or to adjust the slider in 1 second increments, from 5 to 60 seconds.

**Menu Lock** Controls user access to adjustments. When **Lock** is selected, no user adjustments are allowed. All buttons are locked.

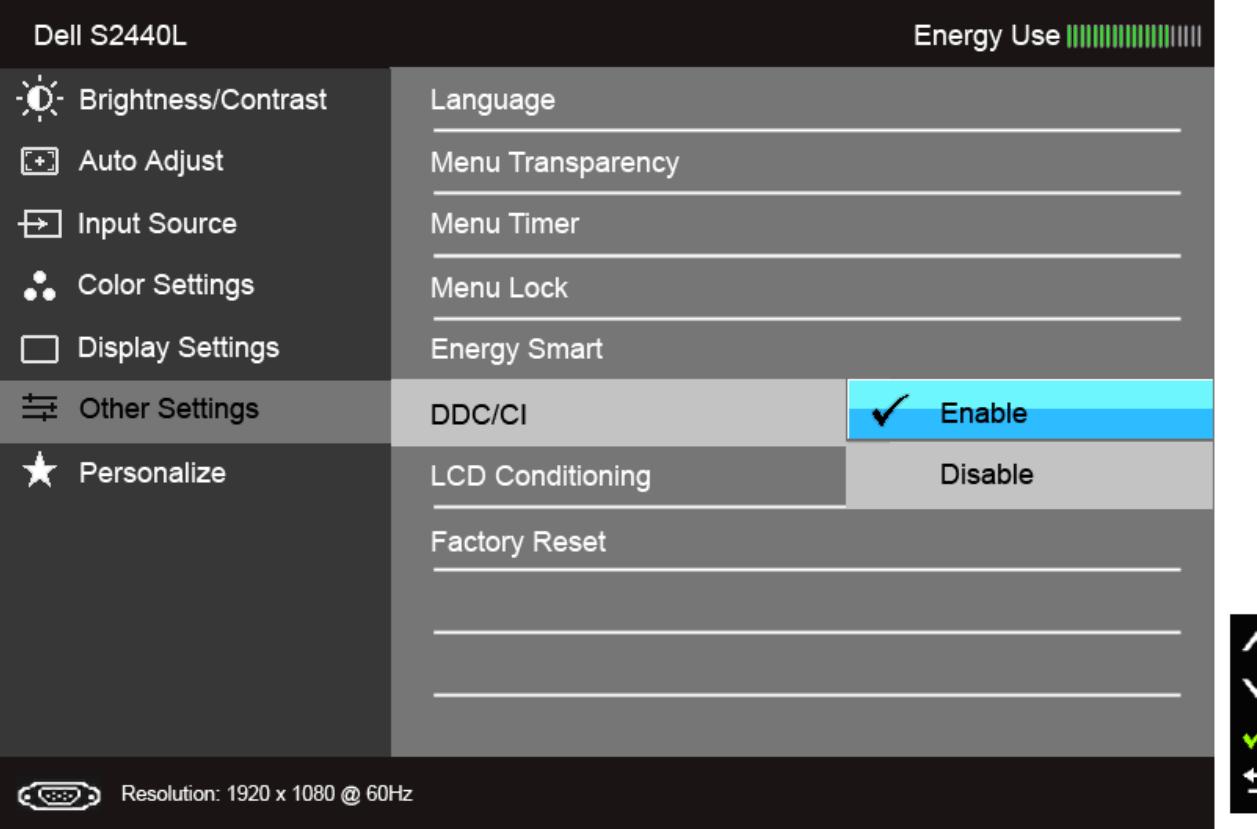
**NOTE:**

Lock function – Either soft lock (through the OSD menu) or hard lock (press and hold the button above the power button for 10 seconds)  
Unlock function– **Only** hard unlock (press and hold the button above the power button for 10 seconds)

**Energy Smart**

To turn **on** or **off** dynamic dimming.

The dynamic dimming feature automatically reduces the screen's brightness level when the displayed image contains a high proportion of bright areas.

<b>DDC/CI</b>	<p>DDC/CI (Display Data Channel/Command Interface) allows your monitor parameters (brightness, color balance, and etc.) to be adjustable via the software on your computer. You can disable this feature by selecting "Disable". Enable this feature for best user experience and optimum performance of your monitor.</p> 
<b>LCD Conditioning</b>	<p>Helps reduce minor cases of image retention. Depending on the degree of image retention, the program may take some time to run. You can enable this feature by selecting "Enable".</p>

Dell S2440L

Energy Use  Brightness/Contrast Auto Adjust Input Source Color Settings Display Settings Other Settings Personalize

Language

Menu Transparency

Menu Timer

Menu Lock

Energy Smart

DDC/CI

LCD Conditioning

Enable

Factory Reset

 Disable

Resolution: 1920 x 1080 @ 60Hz

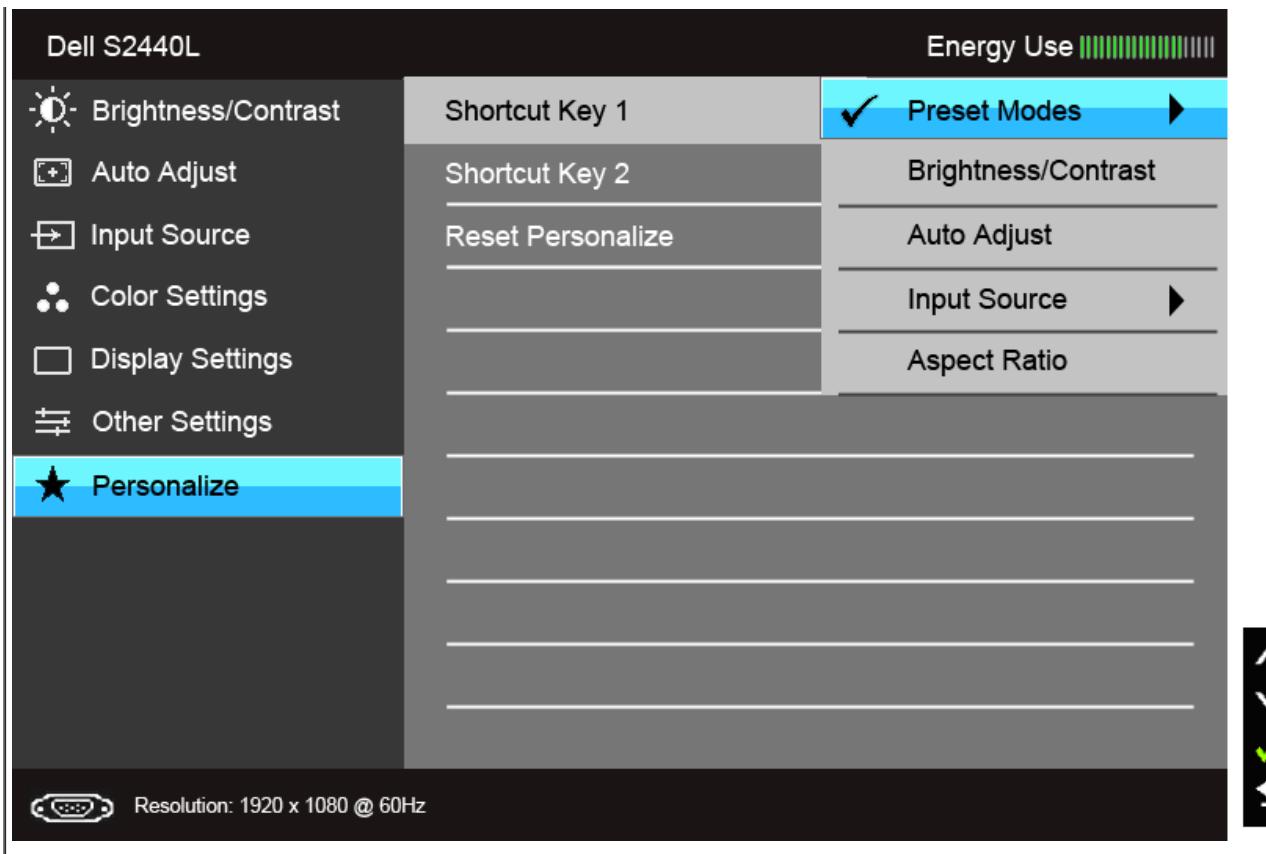
**Factory Reset**

Reset all OSD settings to the factory preset values.

**Personalize**

Users can choose a feature from "Preset Modes", "Brightness/Contrast", "Auto Adjust", "Input Source", or "Aspect Ratio" and set it as a shortcut key.





**NOTE:** This monitor has a built-in feature to automatically calibrate the brightness to compensate for LED aging.

## OSD Warning Messages

When the Energy Smart or Dynamic Contrast feature is enabled (in these preset modes: Game or Movie), the manual brightness adjustment is disabled.

Dell S2440L

To allow manual adjustment of brightness, the Energy Smart /Dynamic Contrast will be switched off.

Do you want to continue?

No

Yes

When the monitor does not support a particular resolution mode, you will see the following message:

Dell S2440L

The current input timing is not supported by the monitor display. Please change your input timing to 1920 x 1080 @ 60Hz or any other monitor listed timing as per the monitor specifications.



This means that the monitor cannot synchronize with the signal that it is receiving from the computer. See [Monitor Specifications](#) for the Horizontal and Vertical frequency ranges addressable by this monitor. Recommended mode is 1920 x 1080.

You will see the following message before the DDC/CI function is disabled:

Dell S2440L

The function of adjusting display setting using PC application will be disabled.

Do you wish to disable DDC/CI function?

No

Yes

When the monitor enters the Power Save mode, the following message appears:

Dell S2440L

Entering Power Save Mode.



Activate the computer and wake up the monitor to gain access to the [OSD](#).

If you press any button other than the power button, one of the following messages will appear depending on the selected input:  
**VGA/HDMI input**

## Dell S2440L

There is no signal coming from your computer. Press any key on the keyboard or move the mouse to wake it up. If there is no display, press the monitor button now to select the correct input source on the On-Screen-Display menu.



If either VGA, or HDMI input is selected and the corresponding cable is not connected, a floating dialog box as shown below appears.

### Dell S2440L

No VGA Cable

The display will go into Power Save Mode in 5 minutes

### Dell S2440L

No HDMI Cable

The display will go into Power Save Mode in 5 minutes

or

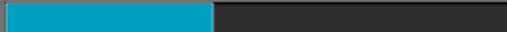
It is recommended that you use the supplied power adapter. If not, you will see the message as shown below.

### Dell S2440L



Wrong power adapter detected.

The display will shut down in 10 seconds.



See [Solving Problems](#) for more information.

## Setting the Maximum Resolution

To set the maximum resolution for the monitor:

Windows Vista<sup>®</sup>, Windows<sup>®</sup> 7, Windows<sup>®</sup> 8:

1. For Windows® 8 only, select the Desktop tile to switch to classic desktop.
2. Right-click on the desktop and click **Screen Resolution**.
3. Click the Dropdown list of the Screen Resolution and select **1920 x 1080**.
4. Click **OK**.

If you do not see 1920 x 1080 as an option, you may need to update your graphics driver. Depending on your computer, complete one of the following procedures:

If you have a Dell desktop or portable computer:

- Go to [support.dell.com](http://support.dell.com), enter your service tag, and download the latest driver for your graphics card.

If you are using a non-Dell computer (portable or desktop):

- Go to the support site for your computer and download the latest graphic drivers.
- Go to your graphics card website and download the latest graphic drivers.

## Using the Tilt

 **NOTE:** This is applicable for a monitor with a stand. When any other stand is bought, please refer to the respective stand setup guide for set up instructions.

### Tilt

With the stand attached to the monitor, you can tilt the monitor for the most comfortable viewing angle.



 **NOTE:** The stand is detached when the monitor is shipped from the factory.

# Troubleshooting

## Dell™ S2440L Monitor User's Guide

- [Self-Test](#)
- [Built-in Diagnostics](#)
- [In-Store Demo](#)
- [Common Problems](#)
- [Product Specific Problems](#)

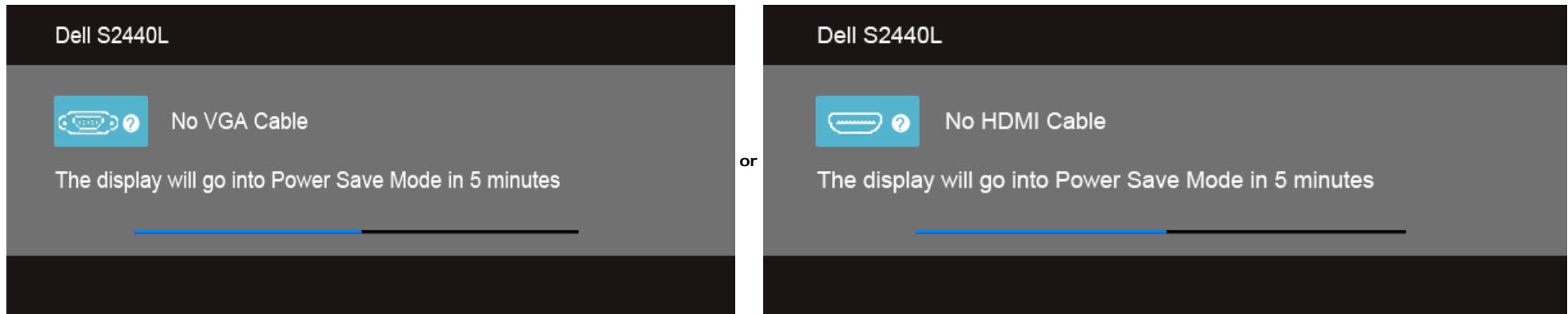
**⚠ WARNING:** Before you begin any of the procedures in this section, follow the [Safety Instructions](#).

## Self-Test

Your monitor provides a self-test feature that allows you to check whether your monitor is functioning properly. If your monitor and computer are properly connected but the monitor screen remains dark, run the monitor self-test by performing the following steps:

1. Turn off both your computer and the monitor.
2. Unplug the video cable from the back of the computer. To ensure proper Self-Test operation, remove all the digital and analog cables from the back of computer.
3. Turn on the monitor.

The floating dialog box should appear on-screen (against a black background), if the monitor cannot sense a video signal and is working correctly. While in self-test mode, the power LED remains white. Also, depending upon the selected input, one of the dialogs shown below will continuously scroll through the screen.



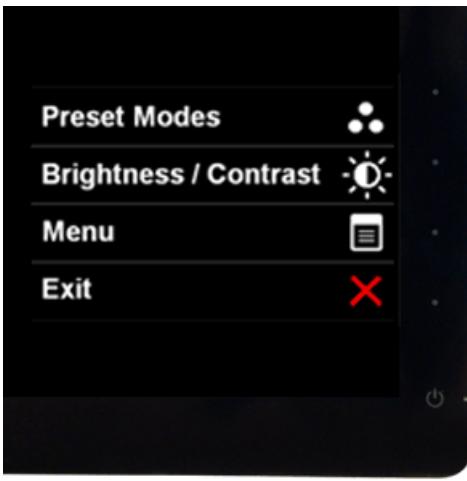
4. This box also appears during normal system operation, if the video cable becomes disconnected or damaged.
5. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

If your monitor screen remains blank after you use the previous procedure, check your video controller and computer, because your monitor is functioning properly.

## Built-in Diagnostics

Your monitor has a built-in diagnostic tool that helps you determine if the screen abnormality you are experiencing is an inherent problem with your monitor, or with your computer and video card.

**>Note:** You can run the built-in diagnostics only when the video cable is unplugged and the monitor is in *self-test mode*.



To run the built-in diagnostics:

1. Ensure that the screen is clean (no dust particles on the surface of the screen).
2. Unplug the video cable(s) from the back of the computer or monitor. The monitor then goes into the self-test mode.
3. Press and hold **Button 1** and **Button 4** on the front panel simultaneously for 2 seconds. A gray screen appears.
4. Carefully inspect the screen for abnormalities.
5. Press **Button 4** on the front panel again. The color of the screen changes to red.
6. Inspect the display for any abnormalities.
7. Repeat steps 5 and 6 to inspect the display in green, blue, black, white and text screens.

The test is complete when the text screen appears. To exit, press **Button 4** again.

If you do not detect any screen abnormalities upon using the built-in diagnostic tool, the monitor is functioning properly. Check the video card and computer.

## In-Store Demo

To enter InStore OSD Mode

Detach/Disconnect all cables. Make sure the monitor is in "On" mode. Press and hold **Button 2** and **Button 4** for 5 seconds.

To exit InStore OSD Mode

Press the power button once. If power is cut off during demo, resume the demo after power is restored.

## Common Problems

The following table contains general information about common monitor problems you might encounter and the possible solutions:

Common Symptoms	What You Experience	Possible Solutions
No Video/Power LED off	No picture	<ul style="list-style-type: none"><li>• Ensure that the video cable connecting the monitor and the computer is properly connected and secure.</li><li>• Verify that the power outlet is functioning properly using any other electrical equipment.</li><li>• Ensure that the power button is depressed fully.</li><li>• Ensure that the correct input source is selected via the <a href="#">Input Source Select</a> menu.</li></ul>
No Video/Power LED on	No picture or no brightness	<ul style="list-style-type: none"><li>• Increase brightness &amp; contrast controls via OSD.</li><li>• Perform monitor self-test feature check.</li><li>• Check for bent or broken pins in the video cable connector.</li><li>• Run the built-in diagnostics.</li><li>• Ensure that the correct input source is selected via the <a href="#">Input Source Select</a> menu.</li></ul>
Poor Focus	Picture is fuzzy, blurry, or ghosting	<ul style="list-style-type: none"><li>• Perform Auto Adjust via OSD.</li></ul>

		<ul style="list-style-type: none"> <li>• Adjust the Phase and Pixel Clock controls via OSD.</li> <li>• Eliminate video extension cables.</li> <li>• Reset the monitor to Factory Settings.</li> <li>• Change the video resolution to the correct aspect ratio (16:9).</li> </ul>
Shaky/Jittery Video	Wavy picture or fine movement	<ul style="list-style-type: none"> <li>• Perform Auto Adjust via OSD.</li> <li>• Adjust the Phase and Pixel Clock controls via OSD.</li> <li>• Reset the monitor to Factory Settings.</li> <li>• Check environmental factors.</li> <li>• Relocate the monitor and test in another room.</li> </ul>
Missing Pixels	LCD screen has spots	<ul style="list-style-type: none"> <li>• Cycle power on-off.</li> <li>• Pixel that is permanently off is a natural defect that can occur in LCD technology.</li> <li>• For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: <a href="http://support.dell.com">support.dell.com</a>.</li> </ul>
Stuck-on Pixels	LCD screen has bright spots	<ul style="list-style-type: none"> <li>• Cycle power on-off.</li> <li>• Pixel that is permanently off is a natural defect that can occur in LCD technology.</li> <li>• For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: <a href="http://support.dell.com">support.dell.com</a>.</li> </ul>
Brightness Problems	Picture too dim or too bright	<ul style="list-style-type: none"> <li>• Reset the monitor to Factory Settings.</li> <li>• Auto Adjust via OSD.</li> <li>• Adjust brightness &amp; contrast controls via OSD.</li> </ul>
Geometric Distortion	Screen not centered correctly	<ul style="list-style-type: none"> <li>• Reset the monitor to Factory Settings.</li> <li>• Auto Adjust via OSD.</li> <li>• Adjust horizontal &amp; vertical controls via OSD.</li> </ul> <p><b>NOTE:</b> When using HDMI input, the positioning adjustments are not available.</p>
Horizontal/Vertical Lines	Screen has one or more lines	<ul style="list-style-type: none"> <li>• Reset the monitor to Factory Settings.</li> <li>• Perform Auto Adjust via OSD.</li> <li>• Adjust Phase and Pixel Clock controls via OSD.</li> <li>• Perform monitor self-test feature check and determine if these lines are also in self-test mode.</li> <li>• Check for bent or broken pins in the video cable connector.</li> <li>• Run the built-in diagnostics.</li> </ul> <p><b>NOTE:</b> When using HDMI input, the Pixel Clock and Phase adjustments are not available.</p>
Synchronization Problems	Screen is scrambled or appears torn	<ul style="list-style-type: none"> <li>• Reset the monitor to Factory Settings.</li> <li>• Perform Auto Adjust via OSD.</li> <li>• Adjust Phase and Pixel Clock controls via OSD.</li> <li>• Perform monitor self-test feature check to determine if the scrambled screen appears in self-test mode.</li> <li>• Check for bent or broken pins in the video cable connector.</li> <li>• Restart the computer in the <i>safe mode</i>.</li> </ul>
Safety Related Issues	Visible signs of smoke or sparks	<ul style="list-style-type: none"> <li>• Do not perform any troubleshooting steps.</li> <li>• Contact Dell immediately.</li> </ul>
Intermittent Problems	Monitor malfunctions on & off	<ul style="list-style-type: none"> <li>• Ensure that the video cable connecting the monitor to the computer is connected properly and is secure.</li> <li>• Reset the monitor to Factory Settings.</li> <li>• Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.</li> </ul>
Missing Color	Picture missing color	<ul style="list-style-type: none"> <li>• Perform monitor self-test feature check.</li> <li>• Ensure that the video cable connecting the monitor to the computer is connected properly and is secure.</li> <li>• Check for bent or broken pins in the video cable connector.</li> </ul>
Wrong Color	Picture color not good	<ul style="list-style-type: none"> <li>• Change the Color Setting Mode in the Color Settings OSD to Graphics or Video depending on the application.</li> <li>• Try different Color Preset Settings in Color Settings OSD. Adjust R/G/B value in Color Settings OSD if the Color Management is turned off.</li> <li>• Change the Input Color Format to PC RGB or YPbPr in the Advance Setting OSD.</li> <li>• Run the built-in diagnostics.</li> </ul>
Image retention from a static image left on the monitor for a long period of time	Faint shadow from the static image displayed appears on the screen	<ul style="list-style-type: none"> <li>• Use the Power Management feature to turn off the monitor at all times when not in use (for more information, see <a href="#">Power Management Modes</a>).</li> <li>• Alternatively, use a dynamically changing screensaver.</li> </ul>

## Product Specific Problems

Specific Symptoms	What You Experience	Possible Solutions
Screen image is too small	Image is centered on screen, but does not fill entire viewing area	<ul style="list-style-type: none"><li>Check the Scaling Ratio setting in the Image Setting OSD.</li><li>Reset the monitor to Factory Settings.</li></ul>
Cannot adjust the monitor with the buttons on the front panel	OSD does not appear on the screen	<ul style="list-style-type: none"><li>Turn off the monitor, unplug the power cord, plug it back, and then turn on the monitor.</li><li>Check whether the OSD menu is locked. If yes, press and hold the button above the Power button for 10 seconds to unlock (for more information, see <a href="#">Menu Lock</a>).</li></ul>
No Input Signal when user controls are pressed	No picture, the LED light is blue.	<ul style="list-style-type: none"><li>Check the signal source. Ensure the Computer is not in the power saving mode by moving the mouse or pressing any key on the keyboard.</li><li>Check whether the signal cable is plugged in properly. Re-plug the signal cable if necessary.</li><li>Reset the computer or video player.</li></ul>
The picture does not fill the entire screen.	The picture cannot fill the height or width of the screen	<ul style="list-style-type: none"><li>Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen.</li><li>Run the built-in diagnostics.</li></ul>

 **NOTE:** When choosing HDMI mode, the **Auto Adjust** function will not be available.

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# Appendix

## Dell™ S2440L Monitor User's Guide

- [Safety Instructions](#)
  - [FCC Notice \(U.S. Only\) and Other Regulatory Information](#)
  - [Contacting Dell](#)
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### WARNING: Safety Instructions

 **WARNING:** Use of controls, adjustments, or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and/or mechanical hazards.

For information on safety instructions, see the *Product Information Guide*.

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### FCC Notices (U.S. Only) and Other Regulatory Information

For FCC notices and other regulatory information, see the regulatory compliance website located at [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).

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### Contacting Dell

For customers in the United States, call 800-WWW-DELL (800-999-3355).

 **NOTE:** If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

1. Visit [support.dell.com](http://support.dell.com).
  2. Verify your country or region in the **Choose A Country/Region** drop-down menu at the bottom of the page.
  3. Click **Contact Us** on the left side of the page.
  4. Select the appropriate service or support link based on your need.
  5. Choose the method of contacting Dell that is convenient for you.
-

# Setting Up Your Monitor

## Dell™ S2440L Monitor User's Guide

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### Setting the display resolution

For maximum display performance with Microsoft® Windows® operating systems, set the display resolution to **1920 x 1080** pixels by performing the following steps:

In Windows Vista®, Windows® 7, Windows® 8:

1. For Windows® 8 only, select the Desktop tile to switch to classic desktop.
2. Right-click on the desktop and click **Screen Resolution**.
3. Click the Dropdown list of the Screen Resolution and select **1920 x 1080**.
4. Click **OK**.

If you do not see the recommended resolution as an option, you may need to update your graphics driver. Please choose the scenario below that best describes the computer system you are using, and follow the given steps.

**1: If you have a Dell™ desktop or a Dell™ portable computer with internet access.**

**2: If you have a non Dell™ desktop, portable computer, or graphics card.**

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# Setting Up Your Monitor

Dell™ S2440L Monitor User's Guide

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## If you have a Dell™ desktop or a Dell™ portable computer with internet access

1. Go to <http://support.dell.com>, enter your service tag, and download the latest driver for your graphics card.
2. After installing the drivers for your graphics adapter, attempt to set the resolution to **1920 x 1080** again.

 **NOTE:** If you are unable to set the resolution to 1920 x 1080, please contact Dell™ to inquire about a graphics adapter that supports these resolutions.

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# Setting Up Your Monitor

Dell™ S2440L Monitor User's Guide

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## If you have a non Dell™ desktop, portable computer, or graphics card

In Windows Vista®, Windows® 7, Windows® 8:

1. For Windows® 8 only, select the Desktop tile to switch to classic desktop.
2. Right-click on the desktop and click **Personalization**.
3. Click **Change Display Settings**.
4. Click **Advanced Settings**.
5. Identify your graphics controller supplier from the description at the top of the window (e.g. NVIDIA, ATI, Intel etc.).
6. Refer to the graphic card provider website for updated driver (for example, <http://www.ATI.com> OR <http://www.NVIDIA.com> ).
7. After installing the drivers for your graphics adapter, attempt to set the resolution to **1920 x 1080** again.

 **NOTE:** If you are unable to set the recommended resolution, please contact the manufacturer of your computer or consider purchasing a graphics adapter that will support the video resolution.

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